"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, I.A., inzh.

Erosion of a temporary earth dam. Gidr. stroi. 30 no.11:39-40 N '60. (MIRA 13:10)

(Amur River—Dams)

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AT 10196-66

ACC NR: AP5028551 SOURCE CODE: UR/0286/65/000/020/0163/0163

26
B

AUTHOR: Solov'yev, I. A.

ORG: none

TITLE: Protective baffle with a port. Class 72, No. 139716

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1965, 163

TOPIC TAGS: membrane, mechanical fastener, mechanical engineering, firearm

ABSTRACT: This Author Certificate presents a protective baffle with a port. To improve the simultaneous performance of the port and the baffle as a flexible membrane, the port screens are connected to one another and to the baffle by dowels and bolts placed along the perimeter of the closure between the screens themselves and between the screens and the baffle.

SUB CODE: 13/ SUBM DATE: 28Jul60

Card 1/1

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

IRKHIN, A. P. and SOLOV'EV, I.

Posobie k primeneniiu grafika dvizheniia sudov i teknnicheskogo plana raboty flota. / Manual for utilization of time schedule for vessel movement and the technical plan for fleet operation /. Moskva, Rechizdat, 1944. 176 p. illus.

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified. Two of Two

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

TERENT'YEV, L. S. and SOLOV'YEV, I.F.

Organizatsiia dvizheniia flota. [Organization of fleet movement]. Dopushcheno v kachestve uchebnika dlia rechnykh uchilishch i tekhnikumov. Moskva, Rechizdat, 1949 p., illus.

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, I.

SOLOV'YEV, I.

Planning the setting up of operating indexes. Mor. i rech.flot 14 no.7:7-8 Jl '54. (MLRA 7:7)

1. Zamestitel' nachal'nika planovo-ekonomicheskogo upravleniya Ministerstva morskogo i rechnogo flota.
(Inland water transportation)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, Ivan Fomich; SVIRIDOV, A.A., redaktor; LOBANOV, Ye.M., redaktor; BEGICHEVA, M.N., tekhnicheskiy redaktor

[Planning the moving of freight by river transport] Planirovanie perevozok gruzov rechnym transportom. Moskva, Izd-vo "Rechnoi transport," 1955. 191 p. (MLRA 9:1)
(Inland water transportation)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

CHERNOV, M.I., redakter; BELYAYEV, V.D., redakter [deceased]; BUKHANOVSKIY, I.L., redakter; ZHUDRO, A.K., redakter; PETRUCHIK, V.A., redakter; SEDOV, F.G., redakter; SINITSYN, M.T., redakter; SMIRNOV, Ye.V., redakter; SOLOV'YEV, I.F., redakter; SUBBOTIN, A.P., redakter; CHERNOV, M.I., redakter; DOBRONRAVOVA, S.M., redakter, KRASNAYA, A.K., tekhnicheskiy redakter.

[Dictionary of marine and river terms] Slovar' morskikh i rechnykh terminov. Moskva, Izd-vo "Rechnoi transport". Vol.1. A - M 1955. 215 p. (MLRA 9:4)
(Russian language--Dictionaries) (Navigation--Dictionaries)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

'[illegible]'YEV, I. F.
Min River Fleet USSR. Gor'kiy Inst of Water Transport Engineers. Moscow 1956

SOLOV'YEV, I.F. "Planning the shipment of freight by river transportation and indexes for the operation of the river fleet." Min River Fleet USSR. Gor'kiy Inst of Water Transport Engineers. Moscow, 1956.
(Dissertation for the Degree of Candidate in Technical Sciences.)

So: Knizhnaya Letopis', No. 13, 1956.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

BUKHANOVSKIY, I.L., redaktor; ZHUDRO, A.K., redaktor; RYABCHIKOV, P.A., redaktor; SEDOV, F.G., redaktor; SINITSYN, M.T., redaktor; SMIRNOV, Ye.V., redaktor; SOLOV'YEV, I.F., redaktor; SUBBOTIN, A.P., redaktor; CHERNOV, M.I., redaktor; DOBROSRAVOVA, S.M., redaktor izdatel'stva; KRASNAYA, A.K., tekhnicheskiy redaktor

[Dictionary of marine and river terms] Slovar' morskikh i rechnykh terminov. Moskva, Izd-vo "Rechnoi transport." Vol.2. N-IA. 1956. 285 p. (MLRA 10:1)
(Navigation--Dictionaries)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

KOMAROV, Anatoliy Vladimirovich, doktor tekhn.nauk; KOSTENKO, I.G., retsenzent; OKHOTNIKOV, G.I., retsenzent; SOLOV'YEV, I.F., red.; AZROVA, A.G., red.izd-va; SALAZKOV, N.P., tekhn.red.

[Interaction of railroad and water transportation in combined systems] Vzaimodeistvie zheleznodorozhnogo i vodnogo transporta v smeshannykh soobshcheniiakh. Moskva, Izd-vo "Rechnoi transport," 1957. 211 p. (MIRA 11:6)
(Railroads)
(Inland water transportation)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, I.F., kand.tekhn.nauk.

Prospective development of waterway-rail transport. Zhel.dor. transp. 39 no.9:26-30 S '57. (MIRA 10:10)
(Transportation)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

FILYASOV, K.A., otvetstvennyy za vypusk; VAKHTUROV, A.N., red.; SOLOV'YEV, I.F., red.; SADOVSKIY, G.L., red.; SUTYRIN, M.A., red.; KHIZHIN, A.V., red. [deceased]; CHEGODAYEV, N.N., red. [deceased]; GORCHAKOV, G.N., tekhn.red.

[Regulations for inland navigation in the U.S.S.R.] Pravila plavaniia po vnutrennim vodnym putiam SSSR. Vvedeny f deistvie prikazom NKRF no.212 ot 28 iiulia 1945 g. Dop. i izmeneniia vvedeny v deistvie prikazom MRF no. 314 ot 14 oktiabria 1947 g. Izd. 8-oe, stereotip. Moskva, Izd-vo "Rechnoi transport," 1958. 197 p. (MIRA 11:5)

1. Russia (1923- U.S.S.R.) Ministerstvo rechnogo flota. (Inland navigation--Laws and regulation)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

KOMAROV, A.V., doktor tekhn.nauk, nauchnyy sotrudnik; SOLOV'YEV, I.F., kand.tekhn.nauk, nauchnyy sotrudnik; KRAVCHENKO, V.S., inzh., nauchnyy sotrudnik; KOVSHOV, G.N., inzh., nauchnyy sotrudnik.

Experimental multidestination transportation of merchandise in combined railroad-waterway communications. Rech.transp. 17 no.2: 8-13 F '58. (MIRA 11:2)

1. Institut kompleksnykh transportnykh problem AN SSSR.
(Merchant ships--Cargo)
(Railroads--Freight)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, I.F., starshiy nauchnyy sotrudnik

Economic predisposing factors in the development of combined railroad and water transportation in the Volga Basin. Rech.transp. 18 no.7:7-12 Jl '59. (MIRA 12:11)

1. Institut kompleksnykh transportnykh problem AN SSSR.
(Volga Valley--Inland water transportation)
(Volga Valley—Railroads)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

POVOROZHENKO, Vladimir Vasil'yevich, prof., doktor tekhn.nauk; KOSTENKO, Ivan Georgiyevich, kand.tekhn.nauk; MAKHOTKIN, Nikolay Aleksandrovich, inzh.; RUMYANTSEV, Sergey Mikhaylovich, inzh.; PARAKHONSKIY, Boris Mikhaylovich, kand.ekon. nauk; SOLOV'YEV, Ivan Fomich, kand.tekhn.nauk; BAKAYEV, V.G., doktor tekhn.nauk, red.; CHERNOMORDIK, G.I., doktor tekhn.nauk, nauchnyy red.; IRKHIN, A.P., kand.tekhn.nauk, nauchnyy red.; KUDRYAVTSEV, A.S., doktor ekon.nauk, nauchnyy red.; GLADTSINOV, B.N., kand.tekhn.nauk, nauchnyy red.; EYGEL', I.Yu., red.; LAVRENOVA, N.B., tekhn.red.

[Transportation in the U.S.S.R.] Transport SSSR. Pod obshchei red. V.G.Bakaeva. Moskva, Izd-vo "Morskoi transport," 1960. 536 p. (MIRA 13:7)

(Transportation)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

NAZAROV, M.S.; OVSYANNIKOV, N.G.; SOYUZOV, A.A.; MITAISHVILI, A.A.; YUDIN, P.G.; SOLOV'YEV, I.F.; SVIRIDOV, A.A.; RUMYANTSEV, S.M.; KOLICHENKO, K.N.; NIKULIN, M.R.; ORLOV, D.A.; MAYORSKIY, G.I.; SEMENOV, I.Ya.; SUTYRIN, M.A.; KOVALEV, A.I.; VLASOV, A.A.; LEVIN, Ya.L.; KLIMOVITSKIY, A.Z.; METAL'NIKOV, G.F.; PANUSHKIN, G.P.; CHECHETKIN, A.V.; MIKHEYEV, V.D.; KOLOKOL'NIKOV, K.A.; MOISEYEVA, A.I.; TIRON, G.I.; KRYLOVA, V.F.; GOFMAN, Ya.M.; BUDCHANOV, B.F.

K.I. Korshunova; an obituary. Rech. transp. 20 no.12:39 D '61. (MIRA 14:12)
(Korshunova, Ksenila Ivanovna, 1910-1961)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, I., kand.tekhn.nauk

Methodical basis for the distribution of transportation in the integrated transportation system of the U.S.S.R. Rech. transp. 21 no.2:4-7 F '62. (MIRA 15:3)

(Transportation)

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L 1913-66 EWT(1)/EWT(m)/EPF(c)/EWP(i)/EWP(j)/T/EWP(t)/EWP(z)/EWP(b)/EWA(h)
ACC NR: AP5025697 IJP(c) JD/HW/JG/ SOURCE CODE: UR/0286/65/000/018/0047/0047

AUTHORS: Artemov, A. N.; Yermolayev, V. I.; Nazarova, E. G.; Petukhov, G. G.; Razuvayev, G. A.; Solov'yev, I. I.; Solov'yeva, N. A.; Sorokin, Yu. A.; Tyutyayev, I. N.

ORG: none

TITLE: Method for manufacturing film type electrical resistors. Class 21, No. 174697

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 18, 1965, 47

TOPIC TAGS: electric resistor, chromium, nickel

ABSTRACT: This Author Certificate presents a method for manufacturing thin film electrical resistors by vacuum deposition of Cr and Ni onto an insulating base. To improve the adhesion of the metal film to the insulating base and to decrease the thermal resistance coefficient, dibenzylchromium $(C_6H_6)_2Cr$ is mixed with dicyclopentadienylcarbonylnickel $(C_5H_5Ni(C\emptyset))_2$ in the ratio 1:(2.5-2.7), and the

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEVA, M.Ye.; SOLOV'YEV, I.F.

Operating tunnel kilns on natural gas. Ogneupory 28 no.10: 445-449 '63. (MIRA 16:11)

1. Panteleymonovskiy ogneupornyy zavod im. Karla Marksa.

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PHASE I TREASURE ISLAND BIBLIOGRAPHICAL REPORT AID 463 - I

Call No.: TK2851.S66

BOOK

Author: SOLOV'YEV, I. I., Prof.
Full Title: AUTOMATIZATION OF POWER SYSTEMS
Transliterated Title: Avtomatizatsiya energeticheskikh sistem

PUBLISHING DATA

Originating Agency: None
Publishing House: State Power Engineering Publishing House
Date: 1950 No. pp.: 500 No. of copies: 7,000
Editorial Staff:
Contributors and Appraisers: I. A. Syromyatnikov, M. I. Tsarev, P. K. Feyst, Ye. D. Zeylidzon, P. S. Zhdanov (deceased) (Chs. 6, 7 & 8), A. B. Chernin (Chs. 3, 4 & 5), L. S. Gol'dfarb and F. S. Smetannikov (Ch. 10), R. L. Raynes (Ch. 11), N. A. Mel'nikov (Editor of manuscript).

PURPOSE: This is a textbook approved by the Ministry of Higher Education of the USSR for use at the electrical engineering institutions of higher education and faculties. According to approved teaching programs, problems of automatization of power systems are studied in two allied courses: "Relay Protection" and "Automatization of Power Systems". The contents of the latter are not yet definitely determined. This book is the first attempt to create a systematic textbook. Most of the material in the book may also prove of value for

1/2

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, I.I.

Mechanized equipment for treating road surfaces. Avt.dor. 22 no.6:6 Je '59. (MIRA 12:9)
(Road machinery)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, I.I.

Impregnation of wooden parts of a cooling tower. Energetik 3 no.5:37 O '53. (MLRA 6:10)

(Wood--Preservation) (Cooling towers)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, I.I., kand. tekhn. nauk

Characteristics of imported cotton. Tekst. prom. 19 no.11:22-27 N '59. (MIRA 13:2)
(Cotton--Varieties)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

DANILIN, A.G.; SOLOV'YEV, I.I.

Device for the automatic lifting and lowering of the ring plate of a spinning machine. Tekst.prom. 23 no.1:43-45 Ja '63. (MIRA 16:2)

1. Glavnyy mekhanik fabriki "Vozrozhdeniye" Leningradskogo soveta narodnogo khozyaystva (for Danilin). 2. Nachal'nik elektrotsekha fabriki "Vozrozhdeniye" Leningradskogo soveta narodnogo khozyaystva (for Solov'yev).
(Spinning machinery)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'EV Ivan Ivanovich, 1881-

FEDOSEEV, A. M., ed.

Principles of the technique of electric relays Moskva, Gos. energ. izd-vo, 1944. 435 p. At head of title: M. F. Kostrov, I. I. Solov'ev, A. M. Fedoseev.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

PA 38/49T38

USSR/Engineering Mar 49
Pulverizers
Coal

"Reliable Operation of Reducers in Ball-Coal Pulverizers," P. S. Kibrik, I. I. Solov'yev, Engineers, 1 p

"Elek Stants" No 3

Notes that one of the hydroelectric stations obtained a new coal pulverizer, but its reducer would not operate due to skewing of the gears. Finally found that this was due to the way the housing was mounted. 38/49T38

USSR/Engineering Mar 49

Recommends steps to be taken in centering a reducer in assembly and maintenance.

38/49T38

SOLOV'YEV, I. I.

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

PA 44/49T31

USSR/Electricity May 49
Relays, Electric
Electric Power Transmission

"Work of Relay Protection and Automatics in Power Systems of the Ministry of Electric Power Plants," Prof I. I. Solov'yev, M. A. Berkovich, Engr, 5 pp

"Elek Stants" No 5

Percentage of correct operations of relay protection has risen to 99.02% in 1947, compared with 97.8% in 1943. Percentage of incorrect elimination of breakdowns was high (18.68%) due to poor condition of relays or automatic

44/49T31

USSR/Electricity (Contd) May 49

devices or unsatisfactory use of equipment. Measures are under way to train qualified relay-protection specialists. Quality of relay equipment produced by Cheboksary Factory should be improved, especially the time-delay relay EV.

44/49T31

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, I. I. (PROF)

U[illegible] ngineering - [illegible], Electric [illegible] Sheet 49

"High-Frequency Protection of TsNEIL MES (Central Scientific Research Electrical Engineering Laboratory, Ministry of Electric Power Plants)," Prof. G. I. Atabekov, Dr Tech Sci, Ye. D. Sapir, Engr, Prof I. I. Solov'yev, TsNEIL MES, 8 pp

"Elektrichestvo" No 9

High-frequency protection is now regarded as basic type of protection for hig - voltage transmission lines. TsNIEL MES has developed two simple types of filter protection for high frequency; differential-phase and inertialess directional protection. Both protection were operationally tested in 110-kv line and subjected to linear experimental analysis by short-circuit tests in the electric power system. Discusses basic test results achieved with experimental units. Includes nine diagrams.

PA 153T44

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, I. I.

32500. SOLOV'YEV, I. I. i KAZANSKIY, V. YE. Izmeneniye skhemy avtomaticheskogo vklyucheniya rezervnogo transformatora s sekiyesnym promezhutochnym rele. Elektr. stantsii, 1949, No. 10, s. 55-56.

SO: Letopis' Zhurnal'nykh Statey, Vol. 50, Moskva, 1949

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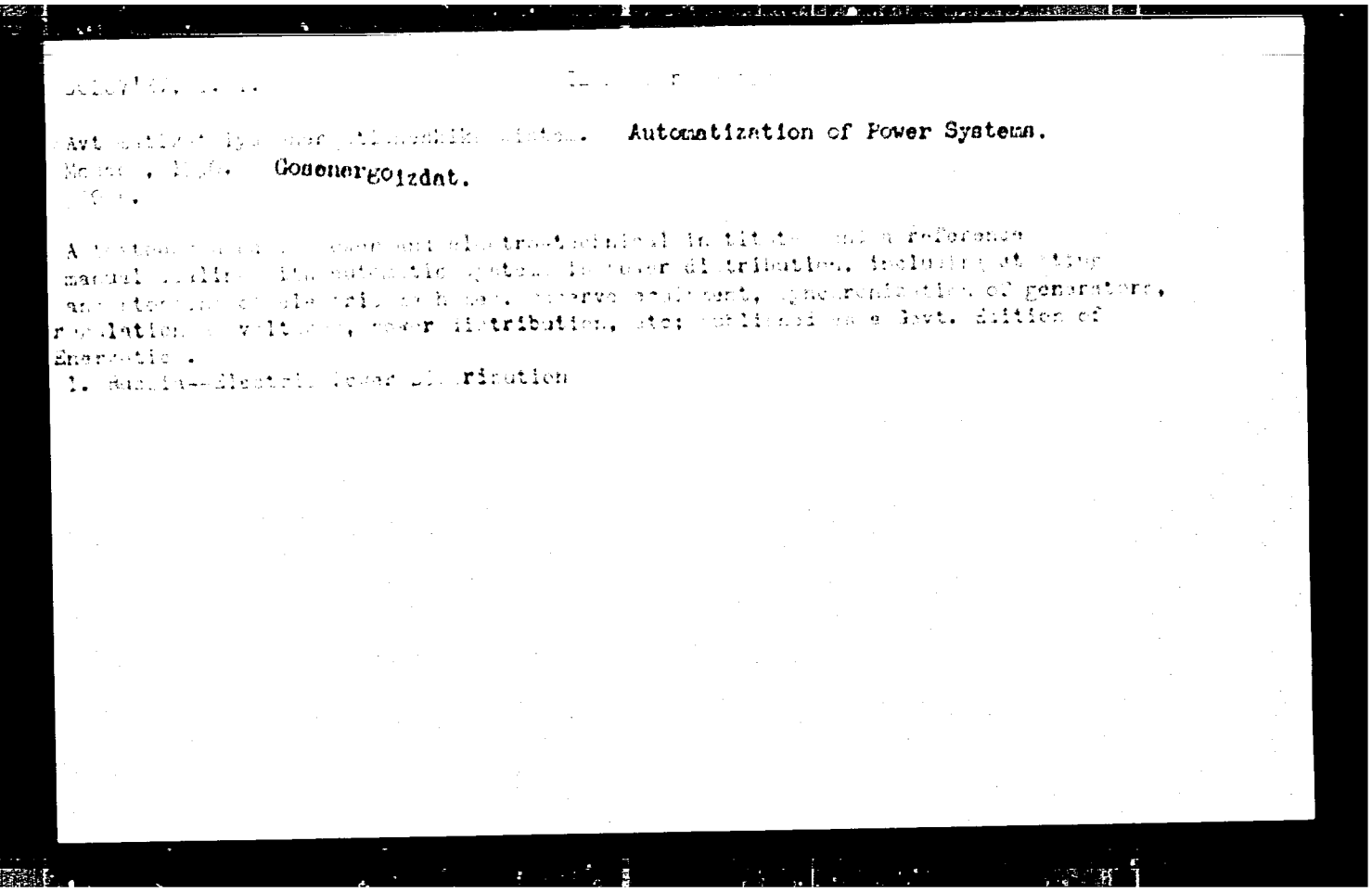
"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6



Automatization of Power Systems.

Gosenergoizdat.

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

USSR/Electricity - Frequency Regulators Jul 51
Magnetic Amplifiers

"The Magnetic-Filter Frequency Regulator (MFRCh-1)," A. G. Moskalev, Cand Tech Sci, Prof I. I Solov'yev, Cen Sci Res Elec Eng Lab of Min of Elec Power Stations

"Elektrichestvo" No 7, pp 11-18

This frequency regulator, for which Moskalev has been awarded Certificates of Authorship No 70439 and 87778, is based on the use of a band filter and magnetic amplifiers and does not contain moving elements or electron tubes. Tests of the 1st

199T15

USSR/Electricity - Frequency Regulators Jul 51
(Contd)

set of regulators in power systems has shown that they are very efficient and reliable and that the measuring element is very stable. Submitted 17 Jan 51.

199T15

[illegible], I. I.

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, I. I.

USSR/Electricity - Personalities

Jan 52

"Professor A. A. Glazunov (His 60th Birthday and 30 Years of Scientific, Pedagogical, and Engineering Activity)," M. G. Chilikin, A. S. Sukomel, I. I. Solov'yev et al.

"Elektrichestvo" No 1, p 91

Glazunov is one of the senior instructors in the Moscow Power Eng Inst imeni Molotov, where he was dean of the Elec Power Eng Faculty from 1935 to 1947 and head of the Electric Power Stations Chair from 1938 to 1950. The five books he has written deal mainly with transmission lines and elec power systems.

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APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

1. SOLOV'YEV, I. I., Prof.; ZEYLIGSON, Ye. D., Eng.; KRIKUNCHIK, A. P., Eng.; MOSKALEV, A. O., Eng.; POPOV, I. M., Eng.; TSAREV, M. I., Eng.; Khomeetov, B.A.

2. USSR (600)

4. Sirotinskii, E. L.

7. Remarks to Ye. L. Sirotinskiy's article "Symbols and rules for drawing schemes of relay protection and automaticity." Eletrichestvo, No. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

CHILIKIN, M.G.; KOSTROV, M.F.; GLAZUNOV, A.A.; MESHKOV, V.V.; SOLOV'YEV, I.I.; VENIKOV, V.A.

L.I. Sirotinskii, honored worker in science and engineering. Elektrichestvo no.6:91 Je '54. (MLRA 7:7)
(Sirotinskii, Leonid Ivanovich, 1879-)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

Solov'yev, I. I

AID P - 626

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 30/35

Authors : Nekrasov, A. N., Syromyatnikov, I. A., Chilikin, M. G., Solov'yev, I. I., Glazunov, A. A., Sirotinskiy, L. I., Ivanishchenko, F. D., Venikov, V. A., Chetverichenko, A. N. and others.

Title : Professor A. M. Fedoseyev. On His 50th Birthday and 25 years of Scientific, Educational and Engineering Activity. (Current News)

Periodical : Elektrichestvo, 8, 89, Ag 1954

Abstract : A short biographical sketch and a description of scientific activity is given.

Institution : Not given

Submitted : No date

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

Solov'yev I.I.

BABIKOV, M.A.; VENIKOV, V.A.; DROZDOV, N.G.; PRIVEZENTSEV, V.A.; SOLOV'YEV, I.I.; TAREYEV, B.M.; NIKULIN, N.V.

Professor S.M.Bragin. Elektrichestvo no.12:82-83 D '54. (MLRA 7:11)
(Bragin, Sergei Mikhailovich, 1894-)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

LEVIT, Grigoriy Osipovich, inzhener; BEL'KIND, L.D.,doktor tekhnicheskikh nauk, redaktor; GLAZUNOV, A.A.,doktor tekhnicheskikh nauk, redaktor; GOLUBTSOVA, V.A.,kandidat tekhnicheskikh nauk, redaktor; ZOLOTAREV, T.L.,doktor tekhnicheskikh nauk, redaktor; IZRASH, S.V., doktor tekhnicheskikh nauk, redaktor; KIRILLIN, V.A.,redaktor; KONFEDERATOV, I.Ya.,doktor tekhnicheskikh nauk, redaktor; PETROV, G.N.,doktor tekhnicheskikh nauk, redaktor; SIROTINSKIY, L.I., doktor tekhnicheskikh nauk, redaktor; SOLOV'YEV, I.I.,professor, redaktor; STYRIKOVICH, M.A.,redaktor; SHMYRENKO, Ye.A.,kandidat tekhnicheskikh nauk, redaktor; SHCHEGLYAYEV,A.V.,redaktor; ANTIK, I.V.,redaktor; FREDKIN, A.M.,tekhnicheskiy redaktor

[Outline history of power engineering in the U.S.S.R.] Ocherki po istorii energeticheskoi tekhniki SSSR. Red. komissiia L.D. Bel'kind i dr. Moskva, Gos. energ. izd-vo. No. 3. [Power congresses and conferences] Energeticheskiy s"ezdy i konferentsii. 1956. 98 p. (MLRA 10:4)

1. Moscow. Moskovskiy energeticheskiy institut. 2.Chlen-korrespondent AN SSSR.(for Kirillin, Styrikovich, Shcheglyayev)
(Power engineering--Congresses)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, Ivan Ivanovich; HERKOVICH, M.A., redaktor; SKVORTSOV, I.M., tekhnicheskiy redaktor

[Automatization of power systems] Avtomatizatsiia energeticheskikh sistem. Izd. 2-oe, perer. Moskva, Gos.energ. izd-vo, 1956. 360 p. (MLRA 9:7)
(Electric controllers)
(Automatic control)
(Electric engineering)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

TITLE: Book Review 104-3-45/45

PERIODICAL: "Elektricheskiye Stantsii" (Power Stations), 1957 Vol.28, No.3, pp. 94 - 95 (U.S.S.R.)

ABSTRACT: Solov'ev, I.I. "Automation of power systems" (Avtomatizatsiya energeticheskikh sistem), Gosenergoizdat, 1956, 360 pages.
The book is reviewed by Zeylidzon, Ye.D., Engineer.
This is a complete and systematic textbook on the subject. In one or two minor respects, which are pointed out, the book is already becoming out-of-date.

AVAILABLE: Library of Congress

Card 1/1

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

Name: SOLOV'YEV, Ivan Ivanovich

Dissertation: Automation of power systems

Degree: Doc Tech Sci

Affiliation: [not indicated]

Defense Date, Place: 29 Mar 57, Council of Moscow Order of Lenin Power Engineering Inst

Certification Date: 7 Sep 57

Source: BMVO 22/57

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

AUTHORS: Neyman, L. R., Polivanov, K. M., SOV/105-58-7-29/32
Zhekulin, L. A., Gonorovskiy, I. S.,
Solov'yev, I. I., Tsypkin, Ya. Z., Gavrilov, M. A,
Ol'yanov, S. A., Lavrov, V. M. and others

TITLE: Professor G. I. Atabekov (Professor G. I. Atabekov)
To His 50th Birthday (K 50-letiyu so dnya rozhdeniya)

PERIODICAL: Elektrichestvo, 1958, Nr 7, pp. 93 - 93 (USSR)

ABSTRACT: Professor Grigoriy Iosifovich Atabekov, Doctor of Technical Sciences, was born in 1908. In 1930 he graduated from the Elektromekhanicheskiy fakultet Tbilisskogo politekhnicheskogo instituta (Dept. of Electromechanics at the Tbilisi Polytechnical Institute). He worked as engineer in the Zakenergo, then moved to Moscow where he worked as chief engineer in the Mosenergo and then in the Teploelektroprojekt. He worked out several distance-protection circuits which are used in energy systems. In 1945 an inertialess directed high-voltage protection device with a phase sensitive circuit was developed as control organ for the 400 kV transmission line from the Kuybyshev Power Plant to Moscow

Card 1/2

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Professor G. I. Atabekov. To His 50th Birthday SOV/105-58-7-29/32

under his supervision in the TsNIEL of the Ministry of Electric Power Stations. In 1950 he was awarded the Stalin Prize for the development and introduction of the mass production of directed high-voltage filter protection device for electric supply lines. Since 1946 he is head of the Department of Theoretical Foundations of Electrical Engineering at the Moskovskiy aviatsionnyy institut (Moscow Institute of Aeronautics). He made 18 inventions and published 98 scientific papers. He is member of the editorial staff of the periodical "Izobretatel'stvo v SSSR" ('Inventions in the USSR") and the periodical 'Izvestiya vysshikh uchebnykh zavedeniy' (Energetika) ("University News" (Power Engineering)). His papers were translated and published in Hungary, Rumania , and China. There is 1 photograph.

1. Scientific personnel--USSR

Card 2/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

CHILIKIN, M.G.; SIROTINSKIY, L.I.; VENIKOV, V.A.; UL'YANOV, S.A.; GHUDINSKIY, P.G.; FEDOSEYEV, A.M.; SOLOV'YEV, I.I.; DROZDOV, N.G.; SYROMYATNIKOV, I.A.

Aleksandr Aleksandrovich Glazunov; obituary. Elektrichestvo no.8:88-89 Ag '60. (MIRA 13:8)
(Glazunov, Aleksandr Aleksandrovich, 1891-1960)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, I.I., doktor tekhn.nauk, prof.; FEDOSEYEV, A.M., doktor tekhn.nauk, prof.

Development of relay protection and automation of electric power systems from the birth of the "Plan of the State Commission for the Electrification of Russia" down to the present day. (MIRA 15:3)
Trudy MEI no.33:183-210 '60.
(Electric power distribution) (Electric protection)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

VOSTROKNUTOV, Nikolay Nikolayevich; DOROGUNTSEV, Viktor Gavrilovich; MARANCHAK, Vadiliy Makarovich; OVCHARENKO, Nikolay Il'ich; SIROTINSKIY, Yevgeniy Leonidovich; FABRIKANT, Veniamin L'vovich; IVANOV, V.I., prof., retsenzent; GIZIL, Ye.P., dots., retsenzent; SIROTKO, V.K., kand. tekhn. nauk, retsenzent; SOLOV'YEV, I.I., prof., red.; FEDOSEYEV, A.M., prof., red.; OVSYANNIKOVA, Z.G., red.; GOROKHOVA, S.S., tekhn.red.

[Use of transistors in relay protection and system automation]Primenenie poluprovodnikov v ustroistvakh releinoi zashchity i sistemnoi avtomatiki. Moskva, Vysshaia shkola, 1962. 282 p. (MIRA 16:3)
(Electric protection) (Electric relays)
(Transistor circuits)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

ATABEKOV, G.I.; BELOUSOV, M.M.; BULGAKOV, K.V.; VASIL'YEV, D.V.; YEGIZAROV, I.V.; ZAKHAROV, S.N.; ZEYLIDZON, Ye.D.; KOSTENKO, M.P.; MANOYLOV, V.Ye.; NARNEVSKIY, B.I.; RYZHOV, P.I.; SOLOV'YEV, I.I.; SYROMYATNIKOV, I.A.; FABRIKANT, V.L.; CHERNIN, A.D.; CHERNYSHEV, N.V.; FEDOSEYEV, A.M.; SHABADASH, B.I.; SHCHEDRIN, N.N.; FATEYEV, A.V.

Viktor Ivanovich Ivanov, 1900-1964; an obituary. Elektrichestvo no.11:89 N '64. (MIRA 18:2)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

ATABEKOV, G.I.; BASHALIN, A.V.; BOGORODITSKIY, N.P.; BULGAKOV, K.V.; VASIL'YEV, D.V.; YEGIAZAROV, I.V.; YERMOLIN, N.P.; KOSTENKO, M.I.; MATKHANOV, P.N.; NOVASH, V.I.; NORNEVSKIY, B.I.; RUTSKIY, A.I.; RYZHOV, P.I.; SOLOV'YEV, I.I.; SOLODNIKOV, G.S.; SLEPYAN, Ya.Yu.; SMUROVA, N.V.; TINYAKOV, V.A.; FATEYEV, A.V.; FEDOSEYEV, A.M.; SHABADASH, B.I.; SHCHEDRIN, N.N.

Viktor Ivanovich Ivanov, 1900-1964; obituary. Izv. vys. ucheb. zav.; energ. 8 no.1:122-123 Ja '65.

(MIRA 18:2)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, I.K., inzh.

Work of the sieve surface of a hammer mill. Trakt. i sel'khozmash. 33 no.6:25-27 Je '63. (MIRA 16:7)

1. Rostovskoye spetsial'noye konstruktorskoye byuro "Prodmash."
(Grain milling machinery)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

[illegible]V'YEV, I.K.; SHVARTS, T.F.

Use of arfonad-induced hypotension in surgical treatment of coarctation of the aorta. Ukr. khirurg. zhur. no.2:170-174 '65.
(MIRA 18:8)

1. Iz kliniki gospital'noy khirurgii Gor'kovskogo gosudarstvennogo meditsinskogo instituta imeni S.M.Kirova.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, I.M.

Training students for practical activity. Politekh. obuch. no.4: 24-28 Ap '58. (MIRA 11:3)

1. Siverskaya srednyaya shkola Leningradskoy oblasti.
(Technical education)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, I.M., red.; SOKHIN, F.A., red.; NOVOSELOVA, V.V., tekhn. red.

[Mental development of deaf children and those with normal hearing; comparative analysis]O psikhicheskom razvitii glukhikh i normal'no slyshashchikh detei; sravnitel'nyi analiz. Pod red. I.M.Solov'eva. Moskva, Izd-vo APN RSFSR, 1962. 370 p. (MIRA 16:1)

1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut defektologii.

(CHILDREN, DEAF) (CHILD STUDY)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

[illegible], I.M.

Improvement of the operational system of 55-V compressors. Prom. energ. 19 no.1:25-27 Ja '64. (MIRA 17:2)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

ACC NR: AP6025601 SOURCE CODE: UR/0413/66/000/013/0041/0041

INVENTORS: Verbitskiy, M. V.; Solov'yev, I. N.; Zavodkova, N. G.; Semenova, Ye. A.; Logunov, S. S.

ORG: none

TITLE: Static dc-to-ac converter. Class 21, No. 183270

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 41

TOPIC TAGS: transistorized circuit, dc to ac converter, frequency converter

ABSTRACT: This Author Certificate presents a transistorized bridge type static dc-to-ac converter with saturable transformers in the transistor base circuits. To stabilize the output power, copper resistors are connected in the transistor base circuits (see Fig. 1). To stabilize the output frequency, a copper resistor is connected in series with the primary of the saturable transformer. To broaden the frequency range of conversion, an inductor with a series-connected diode is connected in parallel with the base-emitter junction of each transistor whose collector is connected to B-.

UDC: 621.314.58

Card 1/2

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

Solov'yev, I. N

LEVCHENKO, G.I., admiral, otvetstvennyy red.; DEMIN, L.A., dots., kand. geogr. nauk, inzh.-kontr-admiral, glavnyy red.; FRUMKIN, N.S., polkovnik, zamestitel' otvetstvennogo red.; ABAN'KIN, P.S., admiral, red.; ALAFUZOV, V.A., prof., kand. voenno-morskikh nauk, admiral, red.; ANAN'ICH, V.Ye., kontr admiral zapasa, red.; ACHKASOV, V.I., kand. istor. nauk, kapitan 1 ranga, red.; BARANOV, A.N., red.; BELLI, V.A., prof., kontr-admiral v otstavke, red.; BESKROVNYY, L.G., prof., doktor istor. nauk, polkovnik zapasa, red.; BOLTIN, Ye.A., kand. voen. nauk, general-mayor, red.; VERSHININ, D.A., kapitan 1 ranga, red.; VITVER, I.A., prof., doktor geogr. nauk, red.; GEL'FOND, G.M., dots., kand. voenno-morskikh nauk, kapitan 1 ranga, red., GLINKOV, Ye.G., inzh.-kontr-admiral v otstavke, red.; YELISEYEV, I.D., vitse-admiral, red.; ZOZULYA, F.V., admiral, red.; ISAKOV, I.S., prof., Admiral Flota Sovetskogo Soyuza, red.; KAVRAYSKIY, V.V. [deceased], prof., doktor fiz.-mat. nauk, inzh.-kontr-admiral v otstavke, red.; KALESNIK, S.V., red.; KOZLOV, I.A., dots. kand. voenno-morskikh nauk, kapitan 1 ranga, red.; KOMAROV, A.V., vitse-admiral, red.; KUDRYAVTSEV, M.K., general leytenant tekhnicheskikh voysk, red.; LYUSHKOVSKIY, M.V., dots., kand. istor. nauk, polkovnik, red.; MAKSIMOV, S.N., dots., kand. voenno-morskikh nauk, kapitan 1 ranga, red.; OKUN', S.B., prof., doktor istor. nauk, red.; ORLOV, B.P., prof., doktor geogr. nauk, red.; PAVLOVICH, N.B., prof., kontr-admiral v otstavke, red.; PANTELEYEV, Yu.A., admiral, red.; PITERSKIY, N.A., kand. voenno-morskikh nauk, kontr-admiral, red.; PLATONOV, S.P., general-leytenant, red.; POZNYAK, V.G., dots., general leytenant, red.; SALISHCHEV, K.A., prof., doktor tekhn. nauk,

(Continued on next card)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

LEVCHENKO, G.I.---(continued) Card 2.
red.; SIDOROV, A.L., prof., doktor istor. nauk., red.; SKORODUMOV, L.A., kontr-admiral, red.; SNEZHINSKIY, V.A., prof., doktor voenno-morskikh nauk, inzh.-kapitan 1 ranga, red.; SOLOV'YEV, I.N., dots., kand. voenno-morskikh nauk, kapitan 1 ranga, red.; STALBO, K.A., kontr-admiral, red.; STEPANOV, G.A. [deceased], dots., vitse-admiral, red.; TOMASHEVICH, A.V., prof., doktor voenno-morskikh nauk, kontr-admiral v otstavke, red.; TRIBUTS, V.F., kand. voenno-morskikh nauk, admiral, red.; CHERNYSHOV, F.I., kontr-admiral, red.; SHVEDE, Ye.Ye., prof. doktor voenno-morskikh nauk, kontr-admiral, red.; CHUKBAKOV, A.I., tekhn. red.; VASIL'YEVA, Z.P., tekhn. red.; VIZIROVA, G.N., tekhn. red.; GOROKHOV, V.I., tekhn. red.; GRIN'KO, A.M., tekhn. red.; KUBLIKOVA, M.M., tekhn. red.; MALINKO, V.I., tekhn. red.; SVIDERSKAYA, G.V., tekhn. red.; CHERNOGOROVA, L.P., tekhn. red.; GUREVICH, I.V., tekhn. red.; BUKHANOVA, N.I., tekhn. red.; NIKOLAYEVA, I.N., tekhn. red.; RADOVIL'SKAYA, E.O., tekhn. red.; TIKHOMIROVA, A.S., tekhn. red.; BELOCHKIN, P.D., tekhn. red.; LOYKO, V.I., tekhn. red.; ROMANYUK, I.G., tekhn. red.; YAROSHEVICH, K.Ye., tekhn. red.

[Sea atlas] Morskoi atlas. Otv. red. G.I. Levchenko. Glav. red. L.A. Demin. [Moskva] Izd. Glav. shtaba Voenno-morskogo flota. Vol.3. [Military and historical. Pt.1. Pages 1-45] Voenno-istoricheskii. Zamestitel' otv. red. po III tomu N.S. Frumkin. Pt.1. Listy 1-45. 1958. _____ [Military and historical maps, pages 46-52]
(Continued on next card)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

LEVCHENKO, G.I.---(continued) Card 3.
Voenno-istoricheskie karty, listy 46-52. 1957. (MIRA 11:10)

1. Russia (1923- U.S.S.R.) Ministerstvo oborony. 2. Nachal'nik Glavnogo upravleniya geodezii i kartografii Ministerstva vnutrennikh del SSSR (for Baranov). 3. Chlen-korrespondent Akademii nauk SSSR (for Kalesnik). 4. Deystvitel'nyy chlen Akademii pedagogicheskikh nauk RSFSR (for Orlov).
(Ocean--Maps)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, I.N.

Documents on Miklukha-Maklai. Izv.Vses.geog.ob-va 95 no.1:91 Ja-F '63. (MIRA 16:4)
(Miklukha-Maklai, Nikolai Nikolaevich, 1846-1888)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, I.P.

Distribution of radial pressures along the axis of aerodynamic bearings. Izv.vys.ucheb.zav.; tekh.tekst.prom. no.4:141-148 '59. (MIRA 12:11)

1. Moskovskiy tekstil'nyy institut.
(Spinning machinery) (Bearings(Machinery))

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, I.P.

Performance of air-lubricated bearings with stabilizer pockets.
Izv.vys.ucheb.zav.; tekh.tekst.prom. no.6:118-126 '59.
(MIRA 13:4)

1. Moskovskiy tekstil'nyy institut.
(Bearings(Machinery)) (Spinning machinery)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, I. P., Cand Tech Sci -- (dis.) "Experimental research into aerodynamic bearings of high-speed spinning centrifuges." Moscow, 1960. 11 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Textile Inst); 150 copies; price not given; (KL, 22-60, 139)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, I. P.

Experimental study of the volumetric distribution of pressure in aerodynamic bearings. Izv. vys. ucheb. zav.; tekh. tekst. prom. no.4:127-134 '62. (MIRA 15:10)

1. Moskovskiy tekstil'nyy institut.

(Spinning machinery)
(Gas-lubricated bearings)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

USSR/Cultivated Plants - Fruits and Berries. M-

Abs Jour : Ref Zhur- Biol., No 3, 1958, 10978

Author : Solov'yev, I.S.
Inst :
Title : Restoration of the Apple Root System after Cutting.

Orig Pub : Sad i ogorod, 1957, No 4, 53-56

Abstract : No abstract.

Card 1/1

10

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

KOVALEV, Aleksandr Ivanovich; PALKIN, A.K., retsenzent; DOBROVOL'SKIY, L.Ye., retsenzent; SOLOV'YEV, I.V., red.; LOBANOV, Ya.M., red. izd-va; YERMAKOVA, T.T., tekhn.red.

[Improvement of the use of navigable canals for transportation] Uluchshenie transportnogo ispol'zovaniia sudokhodnykh kanalov. Moskva, Izd-vo "Rechnoi transport," 1958. 49 p. (MIRA 12:2)
(Inland water transportation)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

MAKOVSKIY, B.A., OLAZKOV, M.M.; SOLOV'YEV, I.N., red.; VINOGRADOVA, N.M., red. izd-va.; YERMAKOVA, T.T., tekhn. red.

[Volga River basin and its water transportation] Volzhskii bassein i ego rechnoi transport. Moskva, Izd-vo "Rechnoi transport," 1958. 130 p. (MIRA 11:11)
(Volga Valley--Inland water transportation)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, I.V. [translator]; GUTKIN, L.S., prof., red.; FRIDMAN, V.Ya., red.; GRIBOVA, M.P., tekhn.red.

[Reception of signals in the presence of noise; collection of articles] Priem signalov pri nalichii shuma; sbornik statei. Moskva, Izd-vo inostr.lit-ry, 1960. 342 p. Translated from the English. (MIRA 14:1)
(Radio--Noise) (Radio--Receivers and reception)

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SOV/123-59-23-96827

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 23, p 92 (USSR)

AUTHOR: Solov'yev, I.V.

TITLE: Vortical Threading of Heat-Treated Machine Parts Made of Alloyed Steel

PERIODICAL: Byul. tekhn.-ekon. inform. (Sovnarkhoz Rostovsk. ekon. adm. r-na), 1958, Nr 3, pp 13 - 14

ABSTRACT: The author describes a method of cutting outer and inner threads of second class accuracy with the aid of special heads mounted on the cross-carriage slide of screw-cutting lathes. Heat-treated (R_C 33) pins are threaded, having a length of from 36 to 56 mm and being made of the steel grades 30KhMA, 30KhGSA and 25Kh2MFA, and nuts of M42 - M56 size, made of the steel grades 35 and 30KhMA. Hard-alloy cutters with honed cutting edge are used as cutting tools. The durability of the cutters amounts to 60 min. Chips are removed by compressed air. In comparison with the standard methods of cutting threads with cutters and taps, the efficiency was increased by 2 - 3 times. Cutting conditions are described. Two photos.

R.V.A.

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

YAKOVLEV, P.A., SOLOVYEV, I.V., DENISOVICH, P.A., POMERANTSEV, V.N.
KORF, Z.G.

Loading and unloading equipment in the river ports of the USSR.

Report submitted to the Conf. on the Application of Science and Technology for the Benefit of the Less Developed Areas.
Geneva, Switzerland 4-20 February 1963

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, I.Ya.

Work practice of the dephenolizing unit in a recovery shop. Koks i khim. no.9:48-50 '61. (MIRA 15:1)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Phenols)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

PHASE I BOOK EXPLOITATION 1105

Solov'yev, Ivan Yevtikh'yevich and Epshteyn, Samuil Aronovich

Betonnyye raboty (Concrete Work) Kiyev, Gosstroyizdat USSR, 1958. 131 p. 18,000 copies printed.

Ed.: Danilkina, N.V.; Tech. Ed.: Zelenkova, Ye.Ye.

PURPOSE: The book is intended for engineering and technical personnel and workers engaged in concrete making. It may also be of use to students attending building schools.

COVERAGE: The authors present basic principles of concrete making for general concrete work and for the production of precast concrete and reinforced-concrete structures. A description of the properties of concrete mixes, and concrete components is given. No personalities are mentioned. There are 7 Soviet references.

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Methods of Transporting Concrete 73

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2-11-59

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, K.F., inzhener.

Automatic control of high-voltage power capacitors. Prom.energ. 11 no.6:18-20 Je '56. (MLRA 9:9)
(Condensers (Electricity)) (Automatic control)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOVIEV, V. I.

GENERAL DISCRIPTION OF THE MOSCOW UNIVERSITY ARRANGEMENT FOR THE STUDY OF EXTENSIVE AIR SHOWERS AND PRELIMINARY RESULTS OBTAINED BY IT

S...Vernov, G.B. Khristiansen, A.T. Abrosimov, ..N. Goryunov, V.A. Dmitriev, G.V. Kulikov, Yu.A. Nechin, S.P. Soklov, V.I. Soloviva, K.I. Soloviev, ..S. Strugalsky, B.A. Khrenov

1. In late 1957, at the Moscow State University an arrangement was put into operation for multipurpose studies of extensive air showers of cosmic rays.

2. The arrangement is a complex assembly of simutaneouslyoperating physical instruments (some 5000 Geiger-Muller counters covering an area of over 100 m^2, and some 150 ionization chambers of various shapes covering a total area of 13 m^2, and a diffusion chamber of area 0.64 m^2) and appropriate electronic equipment and photographic devices to record the insturment readings when an extensive air shower passes through the arrangement. Most of this equipment is located in a specially erected building. Three rooms of this building (~60 sq.m. in area each) have a light roofing of not more than 1.5 g/cm^2 and two rooms (25 m^2 and 80 m^2) are situated underground at adepth corresponding to 20 and 40 metres water equivalent.

report presented at the International Cosmic Ray Conference, Moscow, 6-11 July 1959

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, K.I.

31519
S/627/60/002/000/001/027
D299/D304

3.2410(1559, 2305, 2705, 2805)

AUTHORS: Vernov, S. N., Khristiansen, G.B., Abrosimov, A. T., Goryunov, N. N., Dmitriyev, V. A., Kulikov, G. B., Nesmin, Yu. A., Sokolov, S. P. (deceased), Solov'yeva, V. I., Solov'yev, K. I., Strugals'kiy, Z. S., and Khrenov, B. A.

TITLE: General description of the setup used for studying extensive air showers and the provisional results obtained

SOURCE: International Conference on Cosmic Radiation. Moscow, 1959. Trudy. v. 2. Shirokiye atmosfernyye livni i kvakadnyye protsessy, 5-16

TEXT: A complex experimental setup was installed at Moscow State University, consisting of a simultaneously operating physical apparatus plus the corresponding radiotechnical equipment and photographical recording devices. The setup incorporates over 5000 Geiger-Muller counters (forming a hodoscope), about 150 ionization

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General description of the setup... 3151/3 S/020/60/002/000/001/027
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chamber and a large diffusion chamber. The setup is designed for a comprehensive and simultaneous investigation of all the basic components (electrons and photons, protons, fast neutrons and μ-mesons) of extensive air showers of very large [illegible]. The setup has been designed in 2 different configurations: the first in the end of 1957, and the second at the beginning of 1959. Below, only the results obtained by means of the first setup are considered. The setup is located in a special building and in 10 mobile [illegible]. The showers were registered by the system of [illegible]. Part of the counters were shielded (three for detecting the charged nuclear particles and the μ-mesons) and the other counters were not shielded. The ionization chambers served to determine the energy distribution of the electron-photon component and of the whole nuclear active component. The microstructure of the electron component was studied by means of the diffusion chamber. Special measures were taken to ensure continuous and prolonged operation of the setup. The main units of the setup were automatically controlled, in particular the supply units and the photography system. The operation of the setup (as a whole) was controlled (triggered) by a selection system; in parti-

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4

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

General description of the setup ...

ocular, the showers were selected in accordance with the density of the electron flow and of the μ-mesons. The setup was in operation for about 2500 hours, yielding a large amount of experimental data which are still being processed. The probability theory (Baye's theorem) was used for determining the (x,y)-axes and the number of particles N of the shower; in addition the distribution function f(r) as well as other distribution functions were determined (r denoting distance). The values of x, y and N were found by means of a special electronic simulator. The density distribution of electrons and mesons was determined by means of formula

$$W(\rho) = \prod_i \left[1 - \exp(-\rho\sigma_i)\right]^{m_i} \cdot \exp\left[-\rho\sigma_i(n_i - m_i)\right]$$

where m_i is the number of counters which operate over an area σ_i, and n_i - the overall number of such counters. The energy E of the electron-photon component was determined by means of ionization

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31519
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B019/B064

General description of the setup ...

chambers, shielded with lead (up to 6 cm thick). A very comprehensive picture of the particles and energies was obtained for showers whose axes fell within the system of 128 cubic detection chambers. The setup permits observing the central part of an atmospheric shower, whereby its several layers are simultaneously observed; this corresponds to the individual observation of the electron-photon, nucleoactive and μ-meson components. The processed material already yielded a fairly detailed picture of the structure of extensive air showers at sea level. Thus, the lateral distribution of particle flow in the individual showers was ascertained. It was found that the lateral distribution varies (in the 1 to 25 m range) from shower to shower; the average distribution is, in the range of 5 cm to 100 m, as follows:

$$\rho(r) = \begin{cases} \frac{K_1 N}{r^{0,6}} & K_1 = 3,3 \cdot 10^{-3},\ 0,05 < r < 0,3 \text{ m} \end{cases}$$

(cont'd)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

General description of the setup ...

$$\left(\frac{K_2 N}{r} \cdot e^{-\frac{r}{60}}, \; K_2 = 2 \cdot 10^{-3}, \; 0{,}3 < r < 100 \text{ m} \right.$$

The lateral distribution of the electron-photon components also fluctuates from shower to shower. At distances smaller than 1.5 m, these fluctuations are particularly sharp. The nuclearactive components also exhibits considerable energy fluctuations. The fluctuations in the high-energy μ-mesons were not yet analyzed. The energy of the electron-photon component E_{eph} was calculated for a shower with number of particles equal to $(2.7 \pm 0.2) \cdot N\beta$, where β is the critical energy for air (72 Mev). The above value was obtained with an accuracy of appr. 30%. It was found that the energy of the nuclearactive component $E_n \approx (0.5 \text{ to } 1.0) E_{eph}$. This value is, however, subject to considerable fluctuations and the experimental data are as yet insufficient to determine the contribution of the

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

31519
S/627/60/002/000/001/027
D299/D304

General description of the setup...

nucleoactive component in showers. In addition, the above-mentioned fluctuations severely delimit the choice of a theoretical model for the development of showers. Particular attention was devoted to the structure of the shower in the immediate vicinity of its axis, where the particles of highest (for the particular shower) energy should be concentrated. This led to the discovery of a new effect: Groups of particles (from 4 to 20) travel in narrow beams (not exceeding 8 cm in diameter) in the neighborhood of the axis (or along the axis itself), whereby their lateral distribution shows that the beams are not due to Poisson fluctuations. The new effect can be explained as follows: Either the beam is the core of a "young" electron-photon shower which originates from a high-energy π^0-meson at a certain distance from the apparatus, or the beam consists of μ-mesons. These two possibilities are discussed. The observed irregularity in the lateral distribution of μ-mesons in the vicinity of the shower axis might be related to the new effect. There are 6 figures and 2 tables.

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31519
S/627/60/002/000/001/027
D299/D304

General description of the setup ...

ASSOCIATION: Nauchno-issledovatl'skiy institut yadernoy fiziki MGU, Moskva (Scientific Research Institute of Nuclear Physics Moscow State University, Moscow)

Card 7/7

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

21(7)
AUTHORS: Abrosimov, A. T., Butkeyev, V. A., Kalinin, Yu. V., Khristiansen, G. B.

TITLE: The Nuclear-Active Component of High Energy in Extensive Atmospheric Showers at Sea Level (Yadernо-aktivnaya komponenta vysoko energii v shirokikh atmosfernykh livnyakh na urovne morya)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 5, pp 751-761 (USSR)

ABSTRACT: In the present paper the authors report about statistical investigations of nuclear avalanches in extensive air showers at sea level by means of a sensitive detector. Measurements were carried out in 1957 by means of a device for combined investigations of extensive air showers which is now in operation at Lebedev. It has 4 cylindrical pulse ionization chambers under a lead-graphite filter a 1 720 Geiger-Mueller (Geiger-Mueller) counters in telescope connection for the recording and energy determination of nuclear particles. The counters were connected in coincidence groups (total area 1320 cm²), so that all-fold coincidence pulses were recorded. Figure 1 gives a rough outline of the device including its dimensions.

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SOV/56-36-5-16/71

The Nuclear-Active Component of High Energy in Extensive Atmospheric Showers at Sea Level

The recorded and investigated showers are divided into 4 groups according to the particle number N:

1) $1 \cdot 10^4 \leq N_1 < 3 \cdot 10^4$; 2) $3 \cdot 10^4 \leq N_2 < 1 \cdot 10^5$;

3) $1 \cdot 10^5 \leq N_3 < 3 \cdot 10^5$; 4) $3 \cdot 10^5 \leq N_4 < 2 \cdot 10^6$.

For these 4 groups table 1 gives the number of particles with energies greater than one given, and also the maximum energy of the nuclear-active particle of individual groups. For the latter the following applies:

group	N	max	γ	(N = ratio of the investigated shower pairs)
1	3n	$4.7 \cdot 10^{12}$ ev	1.8±0.5	
2	4n	10^{13} ev	1.0±0.2	
3	5n	$1.6 \cdot 10^{13}$ ev	0.2±0.3	
4	6n	$6 \cdot 10^{13}$ ev	0.7±0.3	

Figure 2 shows the course of the spectra for the two extreme groups. Further investigations deal with the spatial distribution of the energy flux of the nuclear-active component.

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SOV/56-36-5-16/71

The Nuclear-Active Component of High Energy in Extensive Atmospheric Showers at Sea Level

figures some exhibitions for 4 energy groups with particle energies of $1.10^{11} - 3.10^{11}$ ev, $3.10^{12} - 1.10^{13}$, $> 1.10^{13}$ ev and $E > 8.10^{13}$ ev. Figure 4 shows the course of energy flux density for E_1, E_2 and E_3, and figure 5 gives the distribution of the energy flux in a shower with $E > 2.10^{13}$. It was found that the energy of the nuclear-active component in showers with equal N may differ considerably. Results are discussed, and in an appendix the energy distribution with respect to primary particles is investigated. The authors finally thank S. N. Vernov, G. T. Zatsepin for their help, valuable remarks, and discussions. They further thank S. P. Pogosyan, V. I. Ryumin, and V. A. Sobolev for their part in measurements. There are 6 figures, 2 tables, and 12 references, 10 of which are Soviet.

ASSOCIATION: Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta (Institute for Nuclear Physics of Moscow State University)

SUBMITTED: September 15, 1958

Card 3/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

S. N.; KHRISTIANSEN, G. B.; ABROSIMOV, A. M.; KHRENOV, DMITRIYEV, V. A.
VA, V. I.; SOLOVYEV, K.I.; BELYAYEVA,M.F.; NECHIN, Yu. A.; VEDENEYEV,O.N.;
KOV, G. V.; FOMIN, Yu. A.

Summary of the new data on EAS structure obtained with the aid of the complex equipment of Moscow State University.

Report submitted foe the 8th Intl. Conf. on Cosmic Rays (IUPAP) Jaipur, India, 2-14 Dec 1963

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

VEDLOV, S.N.; KHRISTIANSEN, G.B.; ABROSIMOV, A.T.; ATRASHKEVICH, V.B.; BELYAYEVA, I.F.; VEDENYEV, O.V.; DMITRIYEV, V.A.; KULIKOV, G.V.; NESKIN, Yu.A.; SOLOV'YEVA, V.I.; SOLOV'YEV, K.I.; FOMIN, Yu.A.; KHLEBOV, B.A.

Description of a modernized complex setup for studying extensive air showers. Izv. AN SSSR Ser. fiz. 28 no.12:2087-2092 D '64 (MIRA 18:2)

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L 47083-65 EWG(j)/EWT(m)/FCC/T/EWP(j)/EWA(h)/EWA(1) Pc-4/Peb IJP(c) RM

ACCESSION NR: AP5007027 S/0120/65/000/001/0069/0076

33
27
B

AUTHOR: Khristiansen, G. B.; Abrosimov, A. T.; Bogoslovskiy, G. V.; Boytsov, V. I.; Solov'yev, K. I.

19

TITLE: Outfit for investigating extensive showers by means of a set of scintillation counters

SOURCE: Pribory i tekhnika eksperimenta, no. 1, 1965, 69-76

TOPIC TAGS: extensive shower, scintillation counter

ABSTRACT: The addition of 20 scintillation counters in 1962 to the Moscow University outfit for extensive-shower recording is reported. Plastic (polystyrene with 1% PPP + 0.04% POPOP) rectangular 707 x 707 x 65-mm scintillation counters have a total area of 10 m². The counters and the electronic equipment permit a wide-range recording of stream densities and the relative arrival times of cosmic particles. Curves of the differential spectrum of pulse heights, of

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ACCESSION NR: AP5007027

height-channel calibration, and of counter nonuniformity depending on the particle travel are presented. The principal circuits of preamplifiers, amplifiers, pulse-delay measuring devices, and pulse recorders are supplied. "In conclusion, the authors wish to thank S. N. Vernov for directing the work, and V. B. Atrashkevich, Ya. L. Blokh, V. Kh. Leonov, and D. I. Protasov for their help." Orig. art. has: 8 figures and 1 table.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 03Dec63 ENCL: 00 SUB CODE: NP

NO REF SOV: 007 OTHER: 000

Card 2/2

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

L 11801-66 EWT(m)/FCC/T IJP(c)

ACC NR: AP6001593 SOURCE CODE: UR/0120/65/000/006/0197/0198

AUTHOR: Solov'yev, K. I. 22 B

ORG: Scientific Research Institute of Nuclear Physics, MGU (Nauchno-issledovatel'skiy institut yadernoy fiziki MGU) 19

TITLE: Blocking of voltage sources supplying Geiger-Mueller counters

SOURCE: Pribory i tekhnika eksperimenta, no. 6, 1965, 197-198

TOPIC TAGS: geiger counter, cosmic ray measurement

ABSTRACT: An automatic electronic system controlling the power sources of Geiger counters is described. This system was successfully used during a period of three years by the Scientific Research Institute of Nuclear Physics of the Moscow State University in connection with hodoscope measurements of cosmic rays. 10 Geiger counters of the SI-5G 28 type were employed. Voltage regulation was in the limits of ± 3%. Due to a high counter background (about 15 pulses per second) and proper adjustments of resistors and capacitors, the counter operation was not affected by background fluctuations. The sensitivity and response time could be adjusted by a time relay. The response time did not exceed one

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L 11801-66

ACC NR: AP6001593

second at voltage rise nor ten seconds at voltage drop. The circuit was composed of a special blocking counter, one-stage amplifier, cathode followers, diodes, and other elements. The operation of the circuit was briefly explained, and a circuit diagram was presented. Orig. art. has: one diagram. [22]

SUB CODE: 18 / SUBM DATE: 70ct64 / ATD PRESS: 4178

HW

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APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, K.M., inzh.

Investigating effects of elastic sliding forces on lateral vibrations in electric locomotives. Trudy MIIT no.103:84-108 '58. (MIRA 11:12)

(Electric locomotives--Vibration)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, K. M.: Master Tech Sci (diss) -- "Investigation of the side oscillations of electrical locomotives in connection with increasing their speed". Moscow, 1959. 8 pp (Min Transportation USSR, Moscow Order of Lenin and Order of Labor Red Banner Inst of Railroad Transport Engineers im I. V. Stalin), 150 copies (KL, No 10, 1959, 125)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, K.M., insh.

Study of the effect of constant friction on the stability of motion of an electric locomotive. Trudy MIIT no.123:115-131 '60.(MIRA 14:3)
(Electric locomotives--Dynamics)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

SOLOV'YEV, K.M.

Role of the returning device ensuring the stability of motion of the locomotive. Sbor. nauch. trud. EINII 2:213-218 '62. (MIRA 16:8)

(Electric locomotives—Testing)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

ALIKIN, R.I.; GORBIYENKO, I.I.; BESPROZVANNYY, I.G.; ZHIBROV, P.I.; ZOLOTAREV, P.A.; ZUSMANOVSKAYA, L.L.; IBRAGIMOV, K.G.; KOCHETOV, M.A.; KOKOREV, A.I.; KUPRIANOV, Yu.V.; KUROCHKA, A.L., kand. tekhn. nauk; LITVINOVA, L.M.; LOZANOVSKIY, A.L., kand. tekhn. nauk; MAVRIKOV, F.I.; MAKHAN'KOV, L.V.; PUKALOV, V.I.; RAYLYAN, A.F.; SVERDLOV, V.Ya.; SKLYAROV, B.S.; SOLOV'YEV, K.M., kand. tekhn. nauk; STUKALKIN, A.N.; SUROVIKOV, A.A.; TIKHONOV, N.G.; SHTEFENKO, P.K.; YANOV, V.P.

[VLPO electric locomotive.] Electrovoz VLPO. Novocherkassk. Nauchno-issledovatel'skii institut elektrovozostroeniia. Sbornik nauchnykh trudov, vol. 5) (MIRA 18:5)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310016-6

51-3-6/14

AUTHORS: Gurinovich, G. P., Yermolenko, I. N., Sevchenko, A. N. and Solov'yev, K. N.

TITLE: Certain Optical Properties of Chlorophyll and Metal Derivatives of Pheophytin. (Nekotoryye opticheskiye svoystva khlorofilla i metalloproizvodnykh feofitina.)

PERIODICAL: Optika i Spektroskopiya, 1957, Vol.III, Nr.3, pp.237-245. (USSR)

ABSTRACT: Absorption and polarized luminescence spectra of chlorophyll, chlorophyllide, pheophytin and metal derivatives of pheophytin were studied. Chlorophyll was obtained from leaves of nettle. Chlorophyllide was produced by fermentation of Heracleum leaves. Pheophytin was prepared by a method described earlier (Refs.4, 5). Metal derivatives of pheophytin were produced by adding to an alcohol solution of pheophytin dry salts of metals (mainly acetates). These solutions were kept at room temperature for 20 hours and then heated at 50°C for 2 hours. Spectra of polarization of luminescence of the solutions of chlorophyll, chlorophyllide, pheophytin, and absorption spectra of the same three substances are

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Certain Optical Properties of Chlorophyll and Metal Derivatives of Pheophytin.

given in Fig.2. Figs.3 and 4 show absorption spectra of the solutions of pheophytin, silver pheophytinate, zinc pheophytinate (all in Fig.3) and pheophytinates of copper and cadmium (Fig.4). Fig.5 gives the spectra of polarization of luminescence of the solutions of pheophytinates of cobalt, nickel and zinc, as well as absorption spectra of the solutions of the same three substances. A hypothetical energy level scheme for a chlorophyll molecule is given in Fig.6. The authors conclude that in the substances studied each absorption band has its own electron transitions. The fundamental bands of absorption and emission are of dipole nature. Both the system of electron levels and probabilities of transitions between them are quite different in chlorophyll from those in the remaining substances studied. In particular essential differences occur between absorption and polarization spectra of pheophytin and chlorophyll respectively. On introduction of metallic atoms into the

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Certain Optical Properties of Chlorophyll and Metal Derivatives of Pheophytin.

pheophytin molecule its structural characteristics become similar to those of chlorophyll. This seems to indicate that the structures of molecules of metal derivatives of pheophytin and of chlorophyll are similar. Luminescence yield of chlorophyll (Figs.7, 8, 9) and its derivatives was found to depend on viscosity of the solvent. With the increase of viscosity the luminescence yield decreases. The authors thank Professor T. N. Godnev for his interest and advice. There are 9 figures, 2 tables and 17 references, 11 of which are Slavic.

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GURINOVICH, G.P.; YERMOLENKO, I.N.; SHVCHENKO, A.N.; SOLOV'YEV, K.N.

Electron spectra of chlorophyll and metal derivatives of pheophytin. Fiz. sbor. no.3:375-381 '57. (MIRA 11:8)

1. Institut fiziki i matematiki AN Belorusskoy SSR.
(Chlorophyll--Spectra) (Pheophytins--Spectra)

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Sobolyev, K.N.

24(7),24(0)
AUTHOR: Popover, B. I., Academician AS SOV/56-36-1-9/57
Belorusskaya SSR

TITLE: Investigations by Belorussian Scientists in the Field of Spectroscopy and Luminescence (Issledovaniya belorusskikh uchenykh po spektroskopii i lyuminestsentsii)

PERIODICAL: Vestnik Akademii nauk SSSR, 1958, Nr 1, pp 66-76 (USSR)

ABSTRACT: These investigations are being carried out at the Institut fiziki i matematiki (Institute of Physics and Mathematics) and the filialovskiy fizicheskiy fakul'tet Belorusskogo universiteta (Physics Department of Belorussian University) under the direction of B. I. Popover, A. N. Sevchenko, K. A. Tolmachev, Academician AS BSSR, and F. I. Petrov, Corresponding Member, Academy of Sciences, BSSR. In the field of theoretical spectroscopy, the investigations by P. A. Apanasevich, B. I. Stepanov and others are mentioned. Further, the following investigations are mentioned: B. I. Stepanov, Yu. P. Dyumaleyeva and the general principles of spectroscopy of negative atoms in their combinations.
On the basis of experimental data A. N. Sevchenko obtained important results in the determination of fundamental values of optical characteristics of the substances examined.
K. A. Tolmachev, K. P. Yurkov examined calculation methods of reabsorption with large overlapping of absorption and luminescence spectra.
K. A. Barlakova proceeded to obtaining fundamental results in the examination of luminescence of phthalide types. He also showed that the efficiency of quenching collisions may be much less than one.
A. P. Ryabik, under the direction of A. N. Sevchenko, studied the influence of the solvent on the yield of fluorescence as well as the absorption and emission spectra.

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A. N. Sevchenko, G. P. Gurinovich, A. N. Sevchenko examined the luminescence polarization of many organic nitrates. It was shown that the efficiency of quenching collisions may be much less than one.
A. P. Ryabik, V. V. Danilova work in the field of luminescence of rare-earths complexes.
V. A. Filimonik examined the phenomenon of phosphorescence. M. Kondrat'yeva examined the polarization of chlorophyll and related compounds was being carried out in close cooperation with the Institut biologii Akademii nauk BSSR (Institute of Biology, Academy of Sciences, Belorussian SSR).
G. P. Gurinovich, A. N. Sevchenko, K. P. Yurkov examined the absorption and luminescence spectra of live leaf.
A. N. Sevchenko, G. P. Gurinovich, K. P. Salayeva, A. A. Shevchenko studied polarization spectra of the luminescence of pigments in the near length of fluorescence.
A. N. Sevchenko, K. V. Vitol'da obtained valuable data of the composition of complex compounds and the nature of intermolecular forces of interaction.
I. P. Bazin examined the optical and electrical properties of zinc crystal phosphors.

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A. N. Sevchenko, A. I. Stepanov examined collision and its problem of transformation.
A. N. Sevchenko, I. P. Ivanitskiy carried out high pressure in order to study the competition of collisions by means of spectroscopical methods.
I. P. Ivanitskiy, A. G. Zhmakov examined the emitting function of collision by means of nitrogen dioxide, iodine and sod chloride.
A. G. Zhmakov, A. I. Stepanov, A. P. Rumbenok, A. A. Stepanov, A. N. Sevchenko examined the scattering process of collision.
A. P. Ryabchenko, I. P. Ivanitskiy examined the scattering of collision with the use of absorption spectroscopy in the ultraviolet range.
A. P. Ryabchenko and collaborators spectrophotometrically examined the absorption of coloring substances on collision.
I. P. Ivanitskiy, A. I. Gurinovich examined the luminescence of collision products.
B. I. Stepanov, Yu. P. Dyumaleyeva determined the dependence of the spectra of dispersed objects on the refraction ratio, the character of the binding agent, and the layer thickness.

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24(7)

AUTHORS: Sevchenko, A. N., Academician of the AS of the Belorussian SSR, Gurinovich, G. P., Solov'yev, K. N.

TITLE: On the Symmetry of Porphyrin Molecules

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 3, pp 510-513 (USSR)

ABSTRACT: The problem of the symmetry of porphyrin molecules under various conditions has not yet been solved and was dealt with by several authors in a different manner. An experimental investigation of these symmetry properties would therefore be of some interest. The authors investigated the polarization of porphyrin fluorescence in acid and neutral medium as well as of metallic porphyrins. In the above solvents the absorption spectra of the substances under discussion exhibit a shape that is typical of porphyrins, and differ from spectra in other solvents only by a slight band shift. In all cases, these spectra appeared to possess two bands which are approximately symmetrical to the two absorption bands. Fluorescence was excited in the longwave absorption band, and the degree of polarization was measured in the shortwave emission band. For a determination of the limiting polarization, the authors in-

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vestigated the dependence of the degree of polarization on the solution viscosity (varying within rather wide limits). The authors did not dispose of an unsubstituted porphin, whose molecule has the greatest symmetry. The molecule of tetraphenyl porphin under investigation exhibits the same symmetry properties as the porphine molecule, and the conclusions drawn on the symmetry of this molecule apply to porphin molecules as well. Tetraphenyl porphin unfortunately does not fluoresce in acid medium; this is why this compound and its cyclic complex can be investigated in neutral medium only. The degree of polarization of Zn tetraphenyl porphin (13%) does not exceed the theoretical value if the symmetry is beyond the third order (14.3%). In neutral medium, symmetry is not beyond the second order. With mesoporphyrin and protoporphyrin in acid medium, limiting polarization is very low, but somewhat higher than 1/7. This is why the four central protons are found in the molecule plane. The conjugated system of bonds is illustrated in three diagrams. The limiting polarization of Zn-mesoporphin equally exceeds 1/7. Also with Zn-mesoporphyrin, the deviations from the theoretical value are probably due to the effect of the lateral substituent. The authors thank M. G. Gurevich for valuable discussions and for providing the compounds under discussion. There are 5 figures, 1 table, and 14 references,

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On the Symmetry of Porphyrin Molecules SOV/20-128-3-21/58

7 of which are Soviet.

ASSOCIATION: Institut fiziki Akademii nauk BSSR
(Physics Institute of the Academy of Sciences of the Belorussian SSR)

SUBMITTED: June 24, 1959

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S/020/60/133/003/026/031/XX
B019/B067

AUTHORS: Sevchenko, A. N., Academician of the AS BSSR, Gurinovich, G. P. and Solov'yev, K. N.

TITLE: Some Characteristics of the Polarization of Fluorescence of Porphyrines

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 3, pp. 564 - 567

TEXT: The authors attempted to study the relationship between the degree of polarization of emitted waves and their wavelength, and also the spatial orientation of the absorption oscillators. For this purpose they took the polarization spectra of two fluorescence bands of pheophytin (A) of dimethyl ether of protoporphyrine IX (B) and of α-, β-, γ-, and δ-tetraphenylporphyrines (C). The measurements were made with a device having two monochromators, castor oil and glycerin being used as solvents. The results of measurement for (B), dissolved in castor oil, and the results for (A) are graphically represented in Fig. 1 and Fig. 2, respectively. The results for (C) are analogous to those of (B). In these diagrams,

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